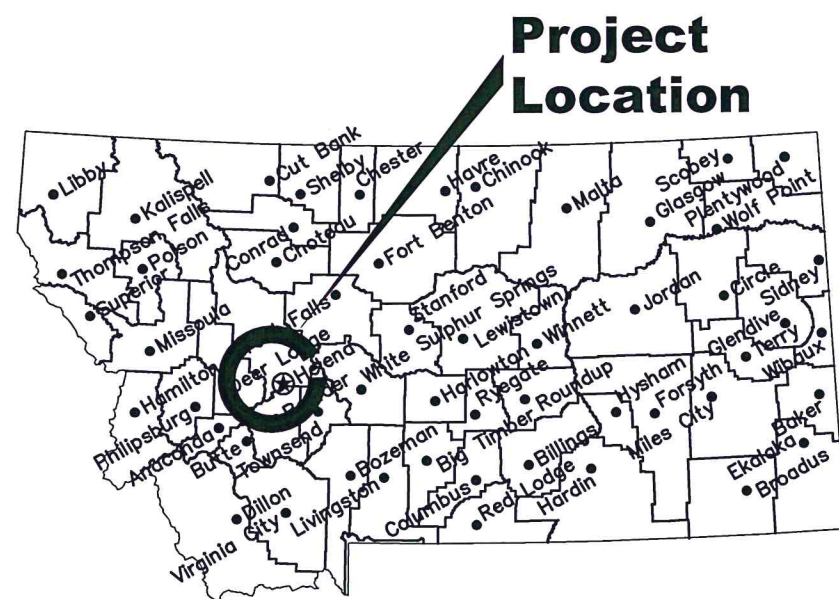


MONTANA FISH, WILDLIFE & PARKS

CANYON CREEK WMA

PARKING AREA & BRIDGE FOUNDATIONS

NEAR CANYON CREEK, MT #7155327

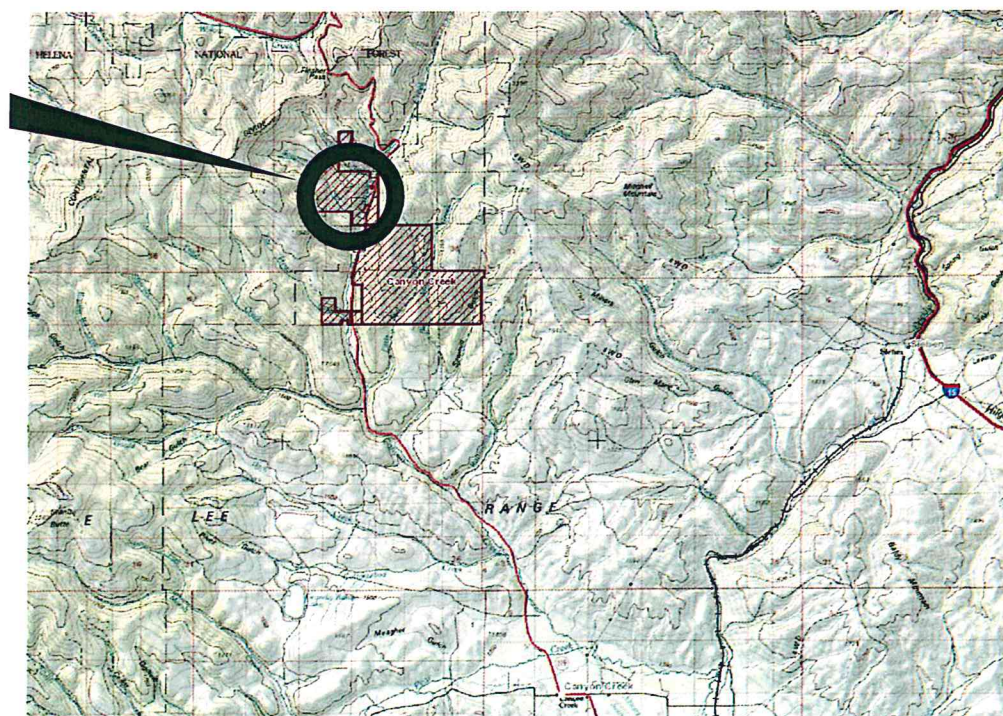


Project Location

Location Map

No Scale

North



Project Location

Vicinity Map

No Scale

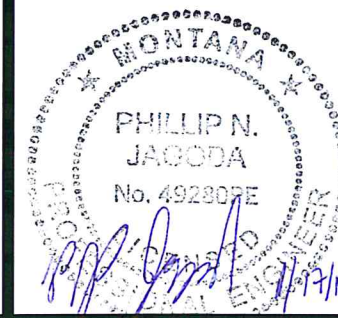
MONTANA FISH, WILDLIFE AND PARKS
DESIGN AND CONSTRUCTION

MAILING ADDRESS: PO BOX 200701
HELENA, MT 59620-0701
TEL 406.841.4000
FAX 406.841.4004
fwp.mt.gov/Doing Business/Design&Construction

PHYSICAL ADDRESS: 1522 9th AVENUE
HELENA, MT 59601

DRAWING INDEX

Sheet Number	Sheet Title	Sheet Number	Sheet Title
1	COVER SHEET	5	BRIDGE FOUNDATION DETAILS
2	SITE PLAN	6	DETAIL SHEET I
3	PROP. ENTRANCE ROAD & PROFILE	7	DETAIL SHEET II
4	PROP. PARKING AREA SITE PLAN	8	EAST PULL-OFF REMOVAL



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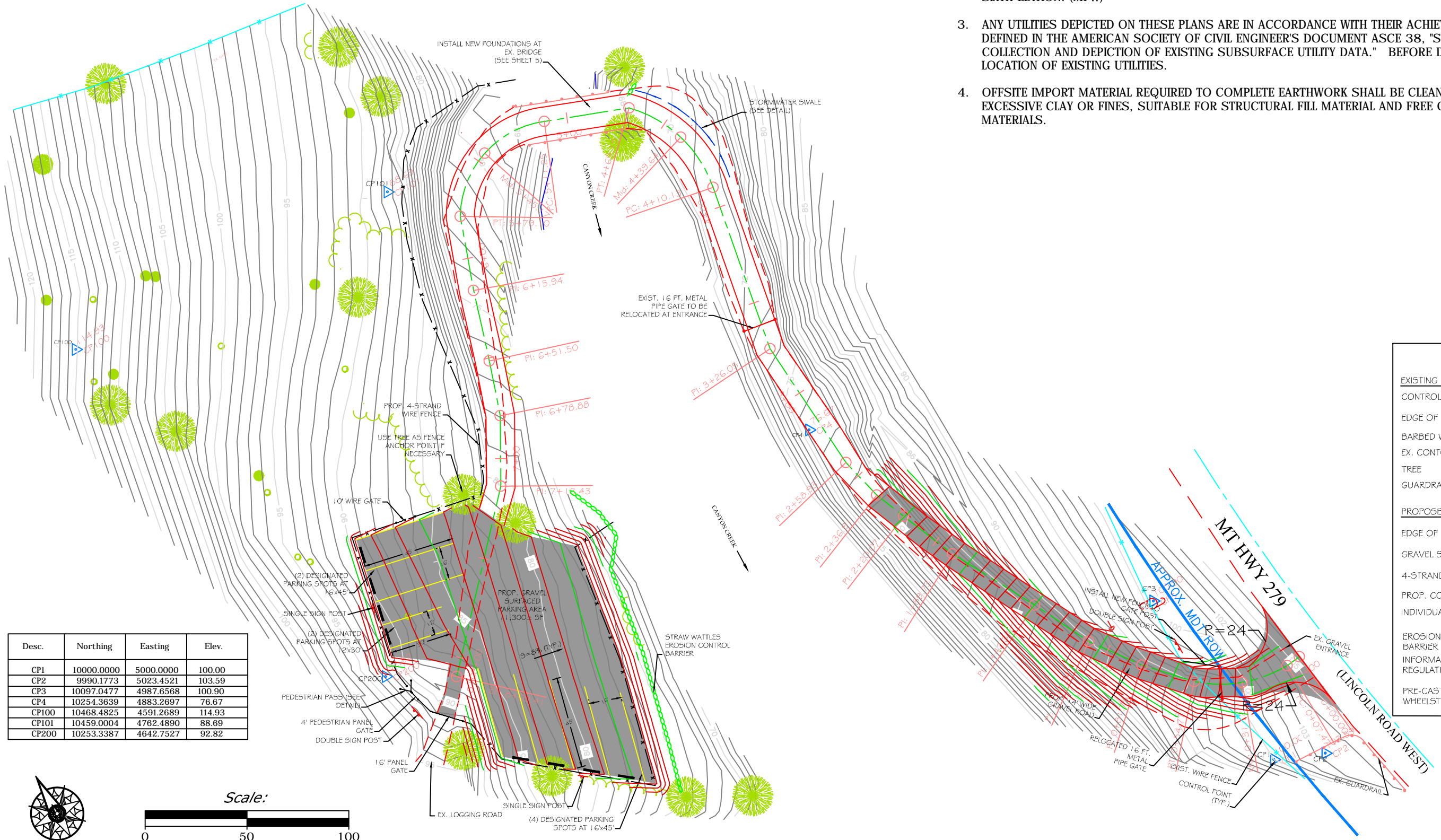
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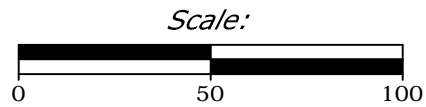
**MONTANA FISH,
WILDLIFE & PARKS**

Cover Sheet
Canyon Creek Wildlife Management Area

SHEET: 1 of 8



Desc.	Northing	Easting	Elev.
CP1	10000.0000	5000.0000	100.00
CP2	9990.1773	5023.4521	103.59
CP3	10097.0477	4987.6568	100.90
CP4	10254.3639	4883.2697	76.67
CP100	10468.4825	4591.2689	114.93
CP101	10459.0004	4762.4890	88.69
CP200	10253.3387	4642.7527	92.82



- NOTES:
1. OWNER WILL ESTABLISH INITIAL SURVEY CONTROL AND ALIGNMENT GRADE STAKES, SEE TECHNICAL SPECIFICATIONS SECTION 01050, FIELD ENGINEERING FOR ADDITIONAL CONTRACTOR SURVEYING REQUIREMENTS.
 2. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH "MONTANA PUBLIC WORKS SPECIFICATIONS", SIXTH EDITION. (MPW)
 3. ANY UTILITIES DEPICTED ON THESE PLANS ARE IN ACCORDANCE WITH THEIR ACHIEVED "QUALITY LEVELS" AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEER'S DOCUMENT ASCE 38, "STANDARD FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." BEFORE DIGGING, CALL 811 FOR LOCATION OF EXISTING UTILITIES.
 4. OFFSITE IMPORT MATERIAL REQUIRED TO COMPLETE EARTHWORK SHALL BE CLEAN MATERIAL, WITHOUT EXCESSIVE CLAY OR FINES, SUITABLE FOR STRUCTURAL FILL MATERIAL AND FREE OF DELETERIOUS MATERIALS.

LEGEND

EXISTING FEATURES

CONTROL POINT

EDGE OF ROAD

BARBED WIRE FENCE

EX. CONTOUR

TREE

GUARDRAIL

PROPOSED FEATURES

EDGE OF ROAD

GRAVEL SURFACED AREA

4-STRAND FENCE

PROP. CONTOUR

INDIVIDUAL PARKING AREA

EROSION CONTROL BARRIER

INFORMATION KIOSK # REGULATION SIGN

PRE-CAST CONCRETE WHEELSTOP

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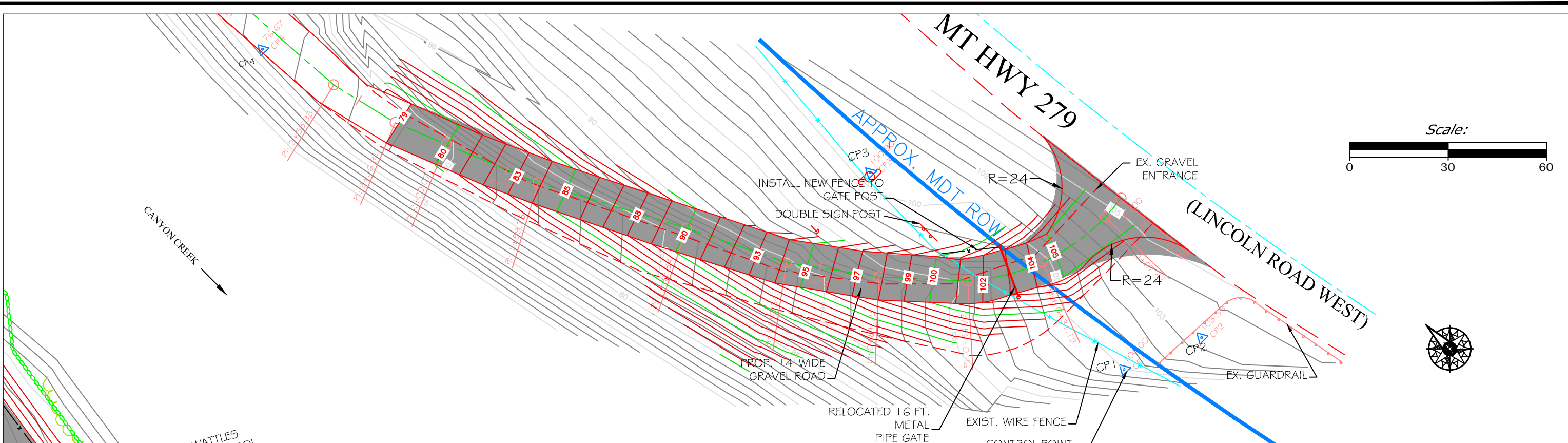


MONTANA FISH,
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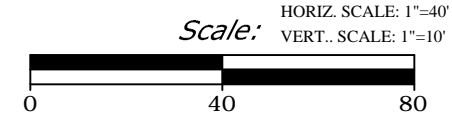
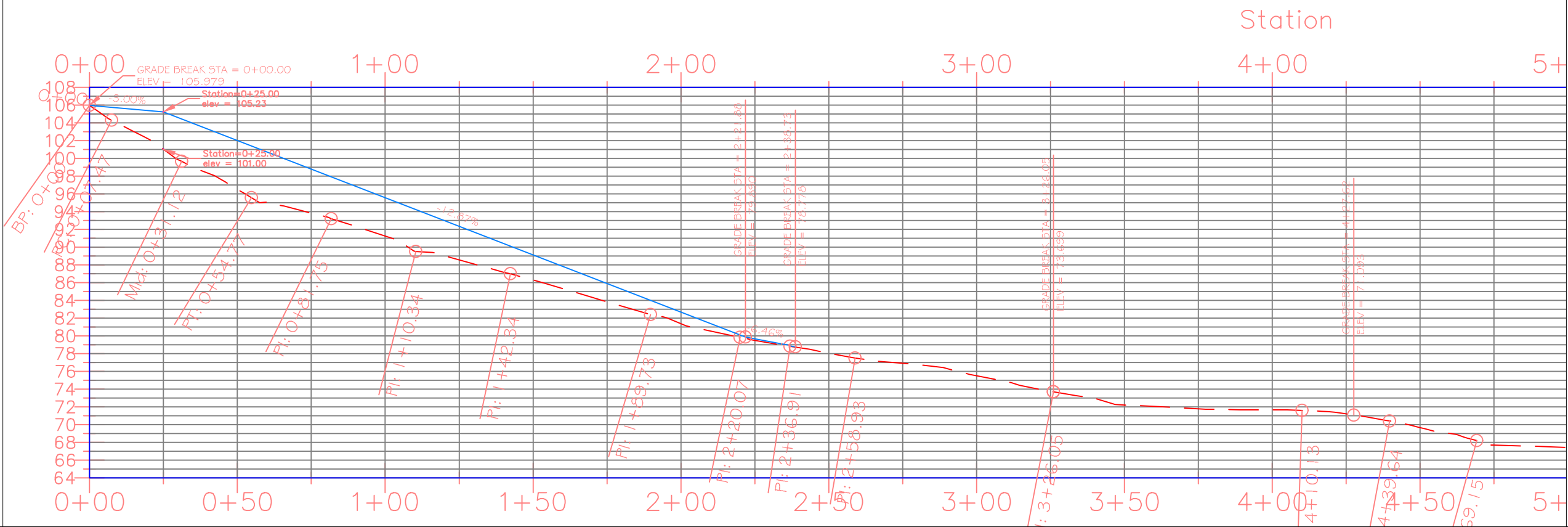
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Site Plan
Canyon Creek WMA - Parking Area & Bridge Foundations

SHEET: 2 of 8



SC existing PROFILE



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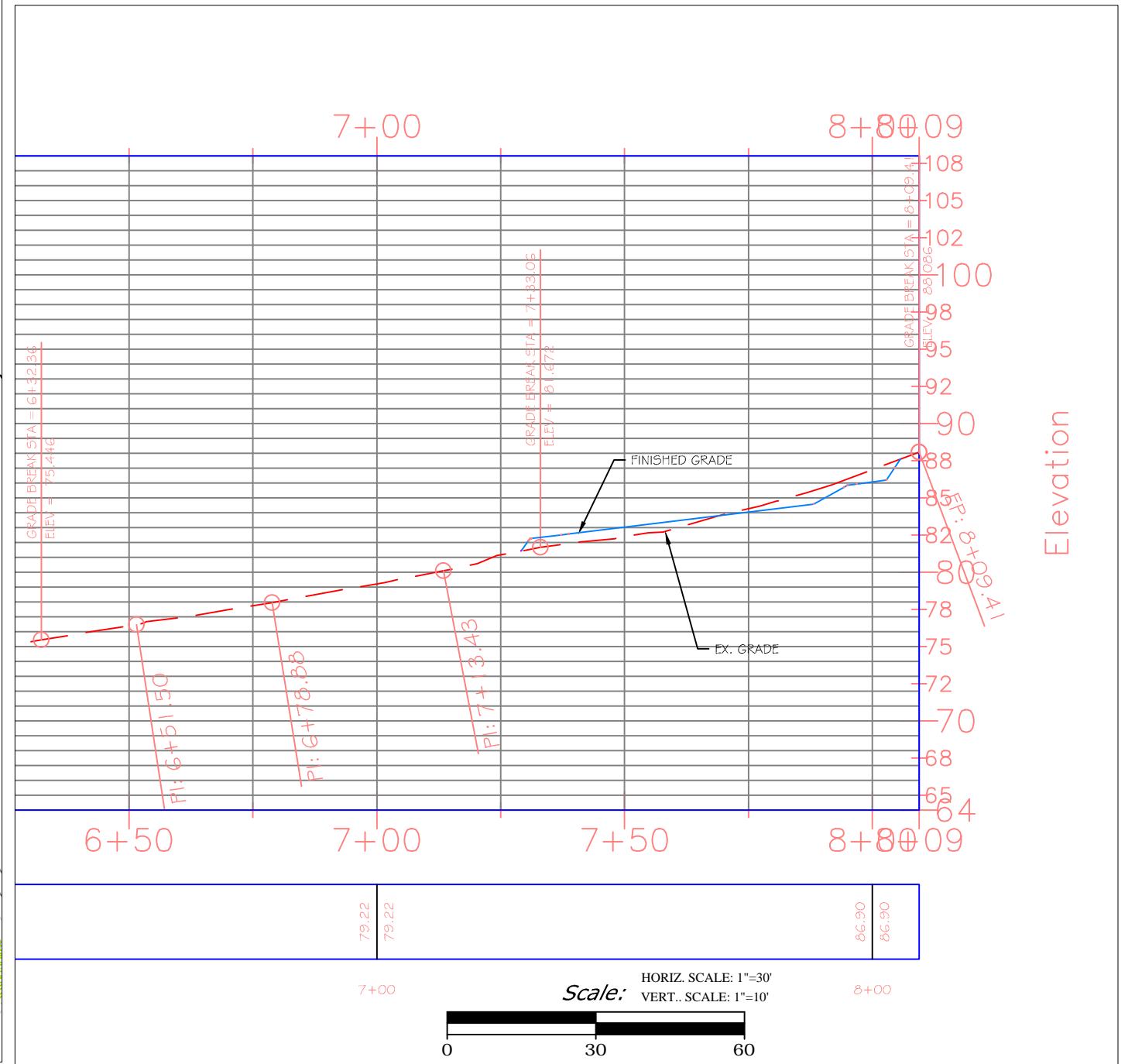
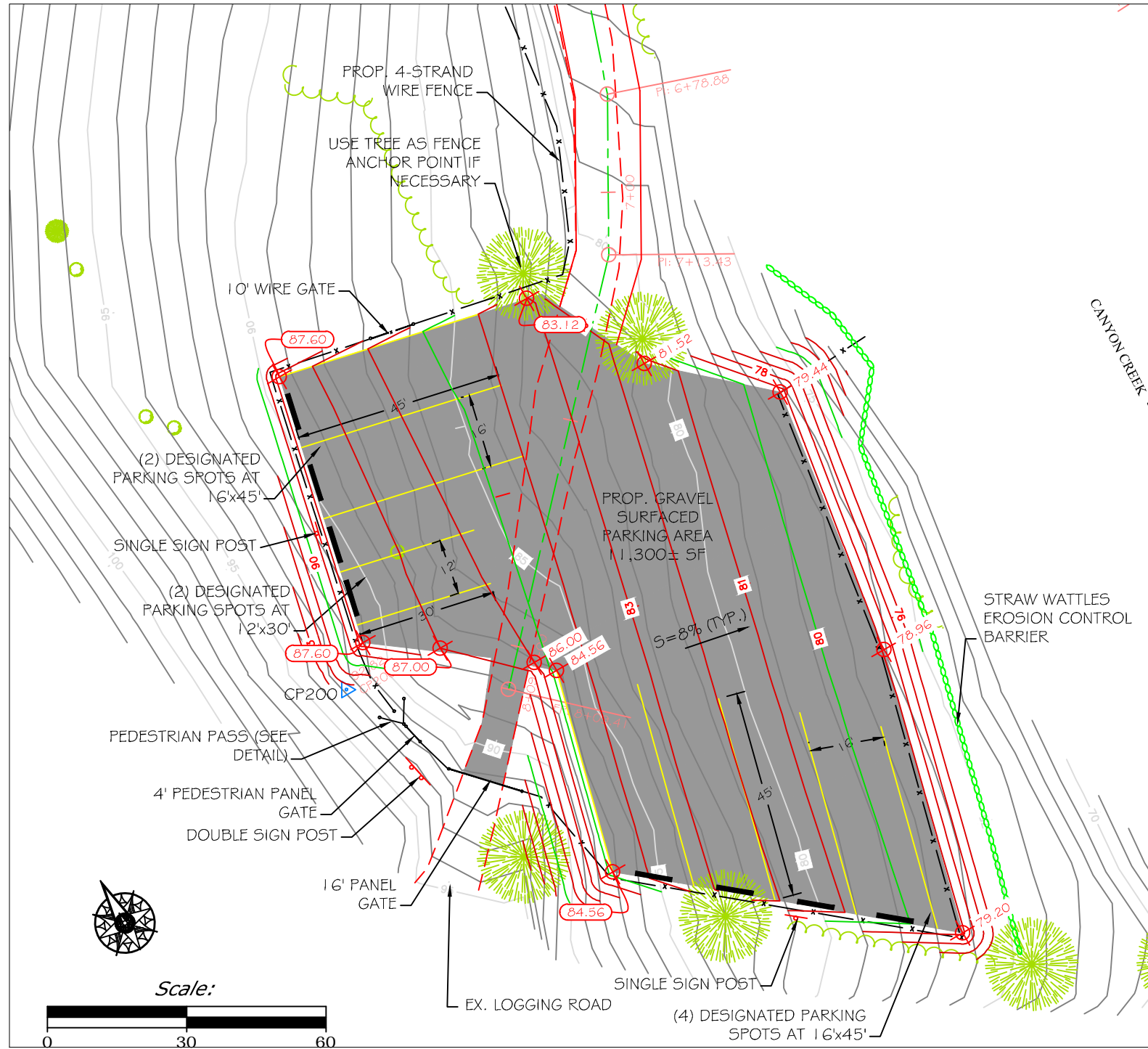
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**MONTANA FISH,
WILDLIFE & PARKS**
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Proposed Entrance Road & Profile
Canyon Creek WMA - Parking Area & Bridge Foundations

SHEET: 3 of 8



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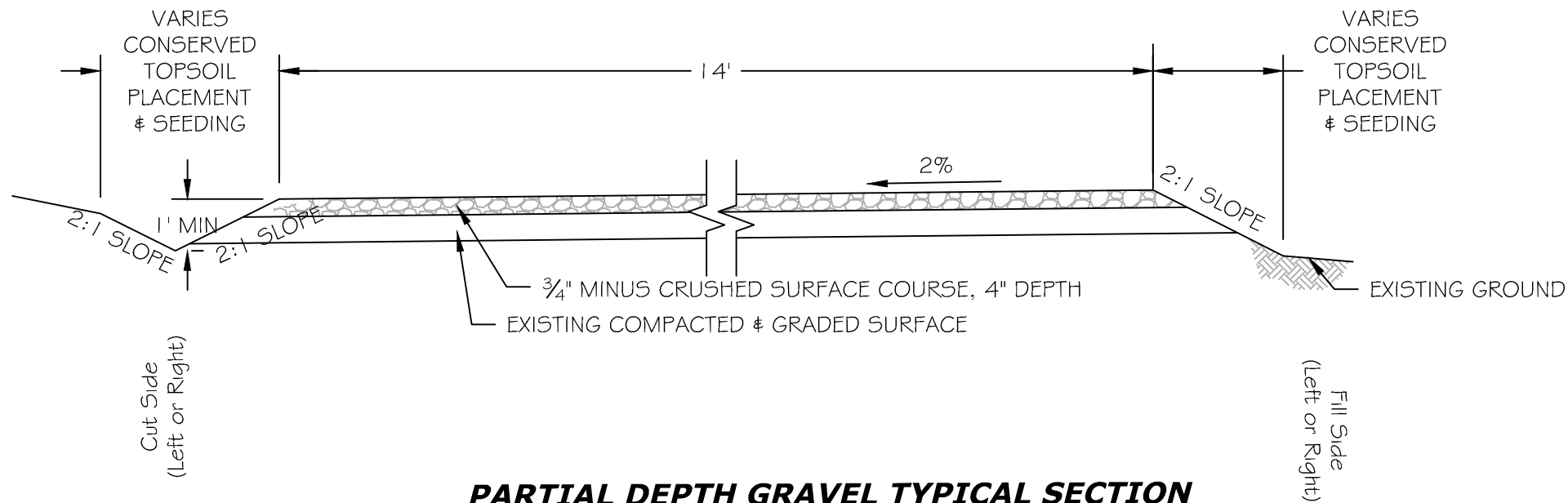


**MONTANA FISH,
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Proposed Parking Area Site Plan

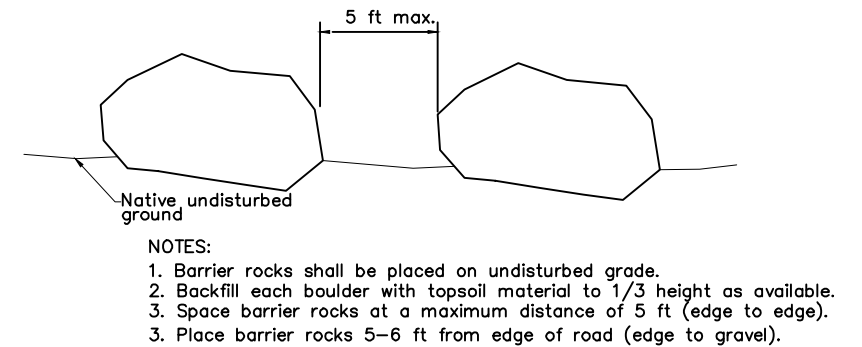
Canyon Creek WMA - Parking Area & Bridge Foundations

SHEET: 4
of 8

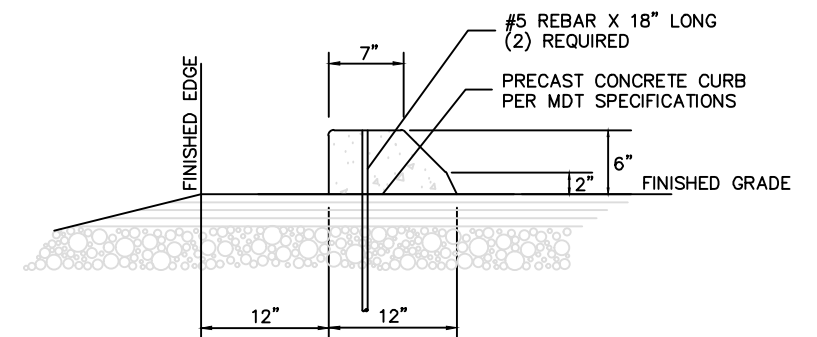


PARTIAL DEPTH GRAVEL TYPICAL SECTION (Not to Scale)

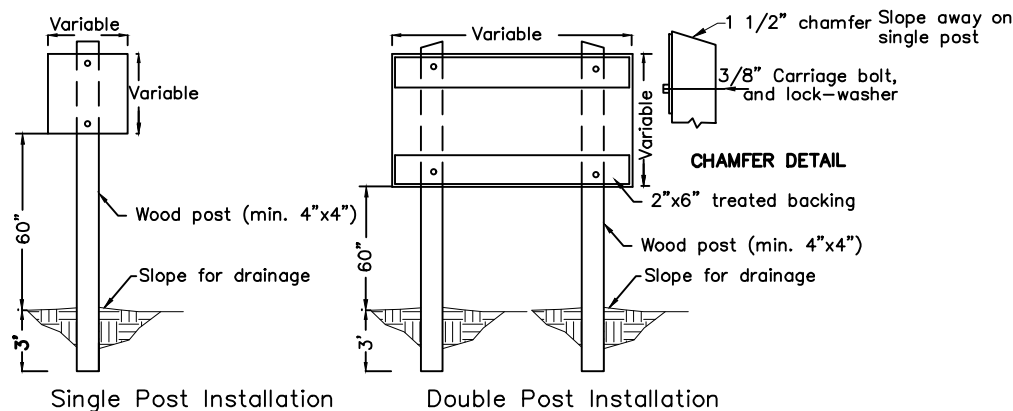
Note: The parking area shall consist of this same detail, with the exception of a cross slope of 8% max. except as noted.



Barrier Rock Placement Detail

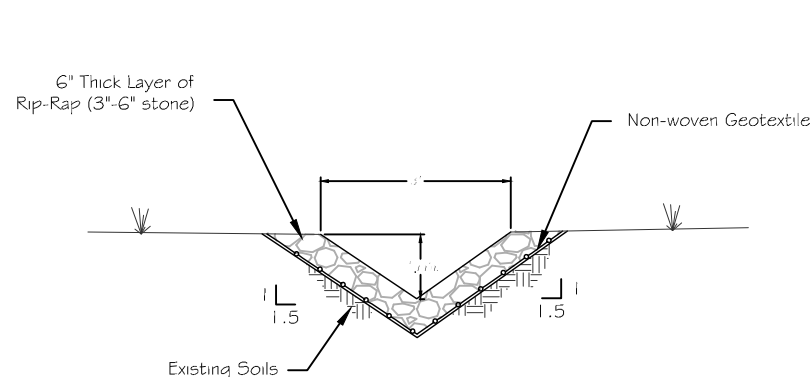


Precast Concrete Wheelstop Section

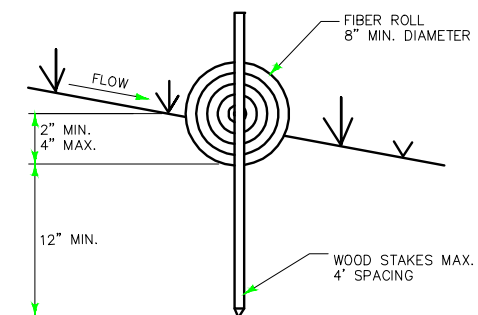


- NOTES:
1. Use pressure treated timbers for all sign posts. Need break-away holes (or device) for larger posts.
2. Coat all posts with preservative for all drilled holes and cut surfaces.
3. Use cadmium plated or galvanized steel for all bolts, nuts & washers.
4. Place bolts to not interfere with sign lettering. Paint bolt heads to match sign.
5. Center single post panels to post, overhang panels 3" beyond posts for double post installations. Extend all posts 3" above sign panels.
6. See break-away detail for posts larger than 4 inches in diameter.

Sign Post Mounting Detail



STORMWATER DIVERSION SWALE



Fiber Roll Detail

A FIBER ROLL CONSISTS OF WEED-FREE STRAW, FLAX, COCONUT, OR OTHER SIMILAR FIBER MATERIALS BOUND INTO TIGHT TUBULAR ROLLS ENCASED IN NATURAL FIBER OR UV-DEGRADABLE POLYPROPYLENE NETTING, AND PLACED ON THE FACE OF SLOPES AT REGULAR INTERVALS TO INTERCEPT RUNOFF, REDUCE ITS FLOW VELOCITY, RELEASE THE RUNOFF AS SHEET FLOW, AND PROVIDE SOME REMOVAL OF SEDIMENT FROM THE RUNOFF.

FIBER ROLLS MAY BE USED ALONG THE TOP, FACE, AND AT GRADE BREAKS OF EXPOSED AND ERODIBLE SLOPES TO SHORTEN SLOPE LENGTH AND SPREAD RUNOFF AS SHEET FLOW. ROLLS MAY BE USED AS CHECK DAMS IF APPROVED BY THE ENGINEER. FOR USE AS CHECK DAMS, PLACE FIBER ROLLS AT 50 FT. MAXIMUM SPACING OR AS APPROVED BY THE ENGINEER.

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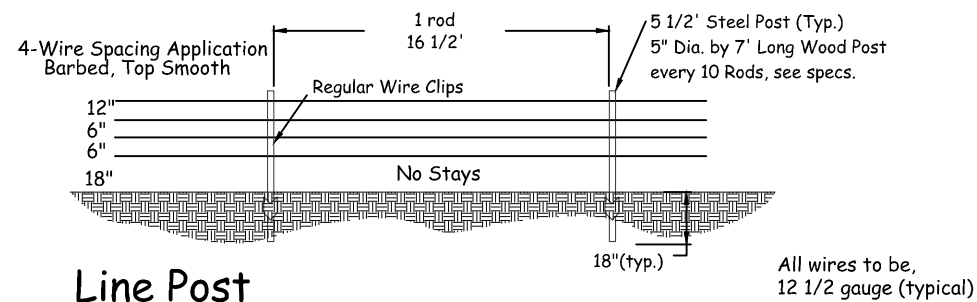
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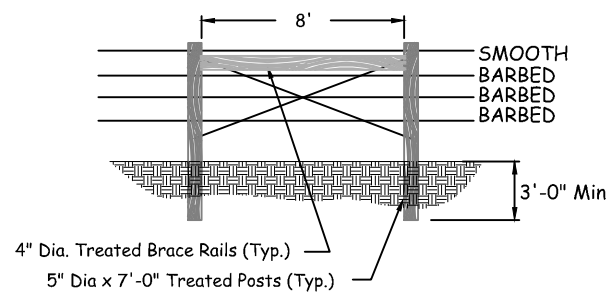
**MONTANA FISH,
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Detail Sheet I
Canyon Creek WMA - Parking Area & Bridge Foundations

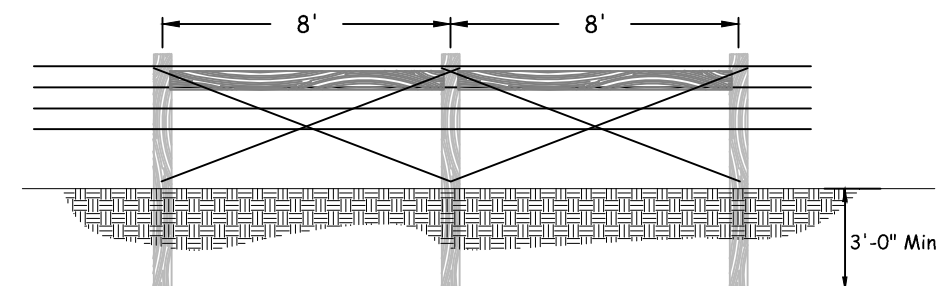
SHEET: 6 of 8



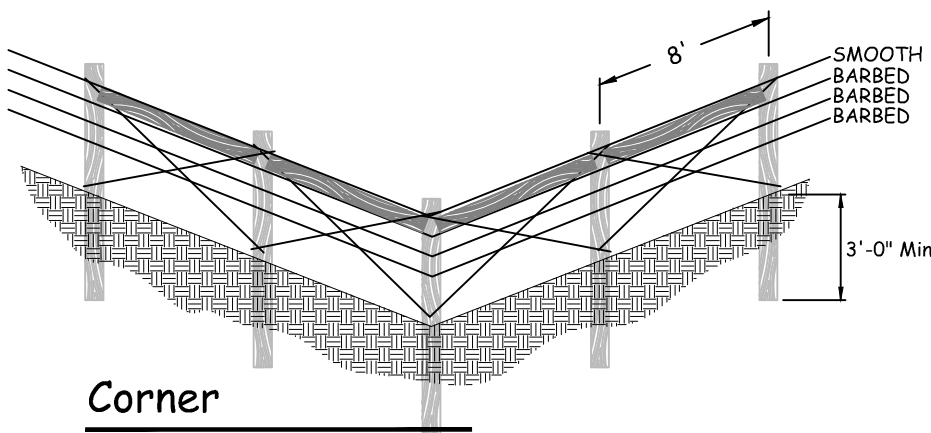
Line Post



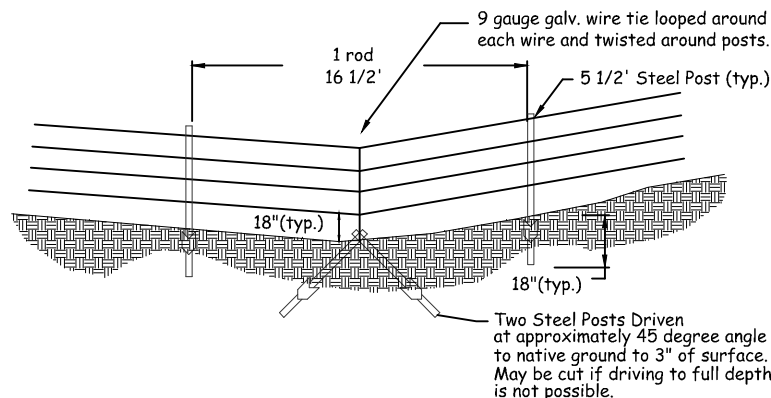
Single Panel



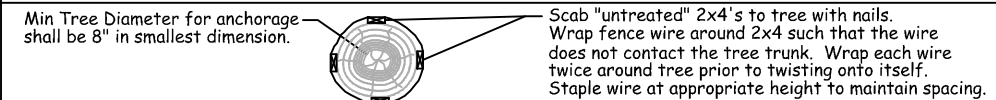
Double Panel



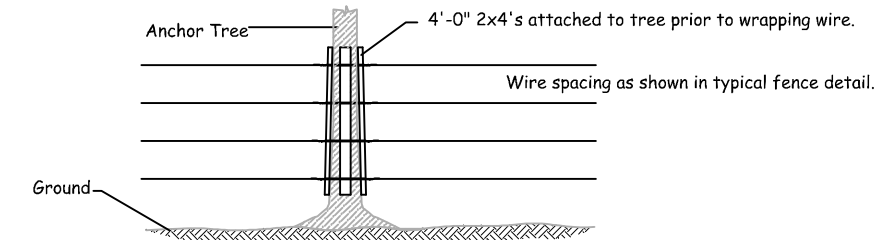
Corner



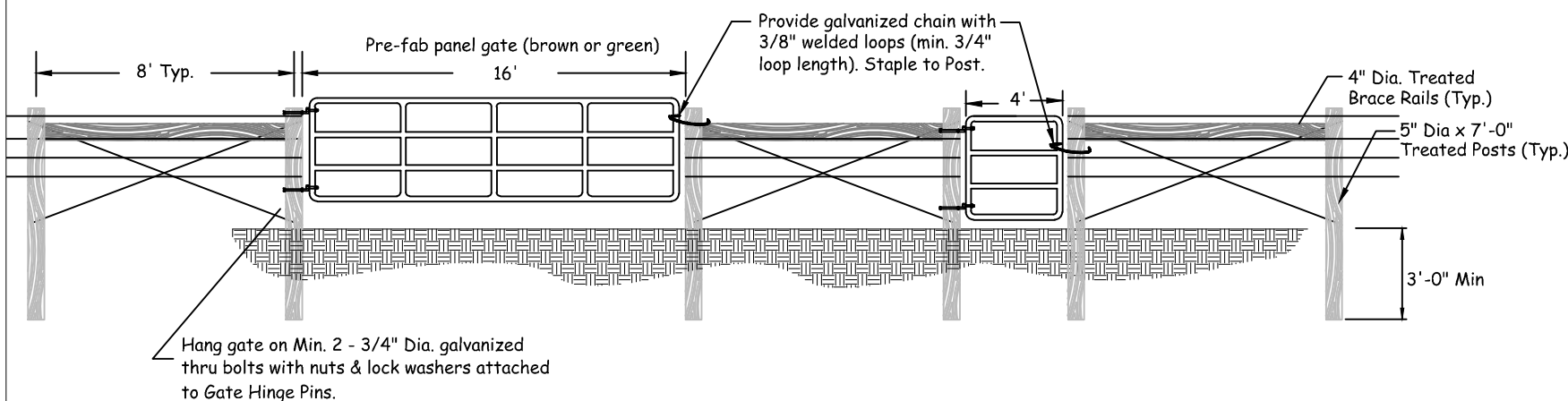
Typical Deadman Anchor Detail



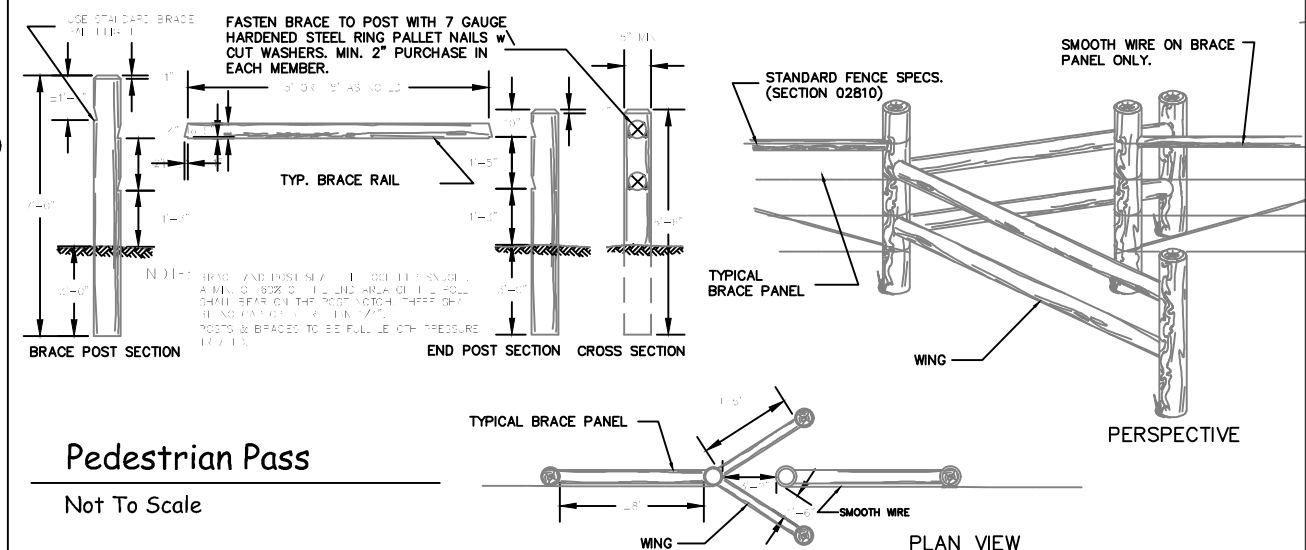
Plan View



Typical Tree Anchor Point Detail



Vehicle and Pedestrian Panel Gate



Pedestrian Pass

Not To Scale

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Detail Sheet II
Canyon Creek WMA - Parking Area & Bridge Foundations

SHEET: 7 of 8



- NOTES:
1. THE EXISTING EAST PULL-OFF IS LOCATED APPROXIMATELY 300 FEET TO THE SOUTH OF THE CANYON CREEK WMA SITE ENTRANCE, ON THE EAST SIDE OF STATE HIGHWAY 279 (LINCOLN ROAD WEST).
 2. THE CONTRACTOR SHALL ADD BARRIER ROCKS AS ILLUSTRATED IN THE DETAIL SHEET, AND ALSO ADD A STORMWATER SWALE TO DIVERT RUNOFF FROM ENTERING ONTO THE STATE HIGHWAY. STORMWATER SHALL BE DIRECTED INTO THE EXISTING ADJACENT ROAD SWALE.
 3. CONTRACTOR WILL BE REQUIRED TO LOCATE ANY EXISTING UTILITIES BEFORE EXCAVATING, PER LOCAL AND STATE REQUIREMENTS. ANY UTILITIES DEPICTED ON THESE PLANS ARE IN ACCORDANCE WITH THEIR ACHIEVED "QUALITY LEVELS" AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEER'S DOCUMENT ASCE 38, "STANDARD FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

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East Pull-off Barrier Installation

Canyon Creek WMA - Parking Area & Bridge Foundations

SHEET: 8 of 8